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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/881,999	06/14/2001	Suk Tae Jung	LEE&XIAO/INFOWAVE.PT1	7814

7590 09/16/2004

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EXAMINER

SALL, EL HADJI MALICK

ART UNIT	PAPER NUMBER
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2157

DATE MAILED: 09/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/881,999

Applicant(s)

JUNG ET AL.

Examiner

El Hadji M Sall

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

1. DETAILED ACTION

This action is responsive to the application filed on June 14, 2001. Claims 1-12 are pending. Claims 1-12 represent information extraction agent system for preventing copyright infringements and method for providing information.

2. Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 5, 7, 9, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowman-Amuah et al. (referred to hereafter as Bowman et al.) U.S. 6,697,824 in view of Gupta et al. U.S. 5,826,258.

Bowman teaches the invention substantially including relationship management in an e-commerce application framework (see abstract).

As to claim 1, Bowman teaches a method for providing a user with information on the Internet, in an environment having a user web browser, one or more information

providing web sites, and a wrapper server for controlling providing of an information the user wants from the information providing web sites to the user, comprising the steps of:

(a) receiving an information search request of the user and extracting wrappers regarding the user who makes the request from a database in which a plurality of wrappers are stored (Column 28, lines 39-42, Bowman discloses FIG. 12 illustrates a flowchart for a method 1200 for automated performance of services on a network. When a request for a service is received over a network in operation 1202, information about a product on the network is searched in operation 1204 in order to perform the service; Column 33, lines 10-31, Bowman discloses...a profile of the user is built based on the collected information and a plurality of different contents are managed in operations 1606 and 1608...).

Bowman fails to teach the steps of:

(b) transferring the user who makes the wrappers regarding request, a web robot, and a wrapper interpreter capable of interpreting the wrappers and outputting an outcome to the browser ;

(c) collecting the information the user wants from the information providing web sites by using the web robot in the user web browser; and

(d) making the collection information an outcome of a processed form and providing the outcome to the user by using the wrappers and the wrapper interpreter.

However, Gupta teaches method and apparatus for structuring the querying and interpretation of semistructured information. Gupta teaches the steps of:

(b) transferring the user who makes the wrappers regarding request, a web robot, and a wrapper interpreter capable of interpreting the wrappers and outputting an outcome to the browser (column 4, lines 56-61, Gupta discloses the wrapper may be generated by compiling the description file or using the description file as input to an interpreter; column 3, lines 29-32, Gupta discloses agent - component visible to a user. For example, an agent may include a user interface that accepts a user's relational database query and displays the results of the query; figure 11);

(c) collecting the information the user wants from the information providing web sites by using the web robot in the user web browser (figure 11); and

(d) making the collection information an outcome of a processed form and providing the outcome to the user by using the wrappers and the wrapper interpreter (Column 6, lines 1-13, Gupta discloses...the semistructured information is provided or input to a program translator to build a parser at step 312...thus, the wrapper will include the parser that is capable of parsing the semistructured information for attributes so the wrapper can present the attributes to a relational database system as topples. The program translator may be a compiler or interpreter).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Bowman in view of Gupta to provide the steps of:

(b) transferring the user who makes the wrappers regarding request, a web robot, and a wrapper interpreter capable of interpreting the wrappers and outputting an outcome to the browser ;

(c) collecting the information the user wants from the information providing web sites by using the web robot in the user web browser; and

(d) making the collection information an outcome of a processed form and providing the outcome to the user by using the wrappers and the wrapper interpreter. One would be motivated to so to allow plurality of wrappers each dedicated to a particular resource (see abstract).

As to claim 3, Bowman teaches the method as claimed in claim 1, wherein the information provided to the user is in a form of digital contents (column 29, lines 36-42, Bowman discloses ...a site selling digital goods may embed a specific digital watermark within its digital goods. It could then create an agent to search the Web for this digital watermark to determine if unauthorized uses exist).

As to claim 5, Bowman teaches the method as claim in claim 1, wherein the web robot and the wrapper interpreter programs of java Applet forms (column 10, lines 22-38, Bowman discloses..."programming the Internet." Sun defines Java as: "a simple,

object-oriented, distributed, interpreted, robust, secure, architecture-neutral, portable...Java supports programming for the Internet in the form of platform-independent Java applets...).

Claims 7, 9, and 11 do not teach or define any new limitations above claims 1, 3, and 5, and therefore are rejected for similar reasons.

4. Claims 2, 4, 6, 8, 10, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowman-Amuah et al. (referred to hereafter as Bowman et al.) U.S. 6,697,824 in view of Gupta et al. U.S. 5,826,258, further in view of Cho et al. U.S. 6,708,225.

Bowman teaches the invention substantially including relationship management in an e-commerce application framework (see abstract).

As to claim 2, Bowman teaches the method as claimed in claim 1.

Bowman fails to teach in case that the user has inputted providing web sites the user wants to search and information on the information providing web sites the user wants does not exist in the wrappers in the receiving steps, the receiving steps further comprising the steps of:

- (a) updating the wrappers with respect to the information providing web sites in which the information does not exist; and
- (b) storing the updated wrappers in the wrapper database.

However, Cho teaches agent system and method. Cho teaches teach in case that the user has inputted providing web sites the user wants to search and information on the information providing web sites the user wants does not exist in the wrappers in the receiving steps, the receiving steps further comprising the steps of:

- (a) updating the wrappers with respect to the information providing web sites in which the information does not exist (column 8, lines 20-37, Cho discloses the

movement control section BA1 reads the script or an execution status of the script from the agent state data in the agent state memory BA4, processes a command in the script, and updates the agent state data in the agent state memory BA4 (step 401)); and

(b) storing the updated wrappers in the wrapper database (column 2, lines 17-24, Cho discloses there is provided an agent system for processing information by an agent, the agent system being connected to another agent system of a different type through a network, comprising: wrapper class memory configured to store component data of a wrapper corresponding to each type of agent system, said wrapper for specially processing information in corresponding agent system).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Bowman in view of Cho to provide in case that the user has inputted providing web sites the user wants to search and information on the information providing web sites the user wants does not exist in the wrappers in the receiving steps, the receiving steps further comprising the steps of:

(a) updating the wrappers with respect to the information providing web sites in which the information does not exist; and

(b) storing the updated wrappers in the wrapper database. One would be motivated to so to allow wrapper generation section to generate a wrapper corresponding to an agent based on the component data in the wrapper class memory (see abstract).

As to claim 4, Bowman teaches the method as claim in claim 2, wherein the information provided to the user is in a form of digital contents (column 29, lines 36-42, Bowman discloses...a site selling digital goods may embed a specific digital watermark within its digital goods. It could then create an agent to search the Web for this digital watermark to determine if unauthorized uses exist).

As to claim 6, Bowman teaches the method as claimed in claim 2, wherein the web robot and the wrapper interpretation unit are programmed of java Applet forms

(column 10, lines 22-38, Bowman discloses..."programming the Internet." Sun defines Java as: "a simple, object-oriented, distributed, interpreted, robust, secure, architecture-neutral, portable...Java supports programming for the Internet in the form of platform-independent Java applets...).

Claims 8, 10, and 12 do not teach or define any new limitations above claims 2, 4, and 6, and therefore are rejected for similar reasons.

5. Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to El Hadji M Sall whose telephone number is 703-306-4153. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 703 308-7562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

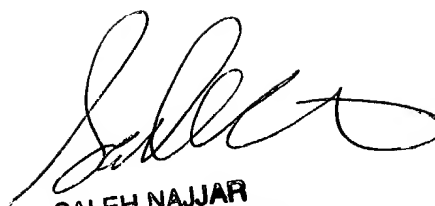
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El Hadji Sall
Patent Examiner
Art Unit: 2157

CS



SALEH NAJJAR
PRIMARY EXAMINER